

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. **(CURRENTLY AMENDED)** A method of transforming an *Allium* genus plant comprising the following steps:

- (a) ~~delivering DNA into transforming~~ embryo cells ~~or embryo-derived culture~~ cells of the *Allium* genus plant with DNA sequences via a vector or direct gene transfer to produce transformed plant material;
- (b) selecting the transformed plant material;
- (c) culturing and regenerating the transformed plant material; and
- (d) obtaining a transformed *Allium* genus plant;

wherein the ~~transformation~~ method of transforming is carried out without passage through a callus phase.

2. **(CURRENTLY AMENDED)** [[A]] The method according to claim 1 wherein the *Allium* genus plant is transformed [[with]] using a strain of *Agrobacterium*.

3. **(CURRENTLY AMENDED)** [[A]] The method according to claim 1 or 2 in which the *Allium* genus plant is onion.

4. **(CURRENTLY AMENDED)** [[A]] The method according to claim 1 or 2 wherein the ~~embryes~~ embryo cells are transformed [[with]] using a binary vector.

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5. **(CURRENTLY AMENDED)** ~~[[A]]~~ The method according to claim 1 in which the ~~embryos~~ embryo cells are inoculated with an *Agrobacterium* strain containing ~~an active a T-DNA active for transformation. immediately after isolation of the embryos.~~

6. **(CURRENTLY AMENDED)** ~~[[A]]~~ The method according to claim 1 or 2 in which immature embryos are used.

7. **(CURRENTLY AMENDED)** A method of transforming an *Allium* genus plant using immature embryos as an explant source, comprising:

- (a) isolating immature embryos of the *Allium* genus plant to be transformed;
- (b) transforming the immature embryos by inoculating the immature embryos with an *Agrobacterium* strain and wounding the immature embryos in a culture medium;
- (c) transferring the immature embryos to a selective medium;
- (d) culturing the immature embryos;
- (e) selecting putative transgenic cultures; ~~[[and]]~~
- (f) regenerating plants; and
- (g) producing a transformed Allium genus plant.

8. **(CURRENTLY AMENDED)** ~~[[A]]~~ The method according to claim 1 wherein the plant is transformed with an *Agrobacterium tumefaciens* strain containing a vector which carries a selectable DNA of interest.

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9. **(CURRENTLY AMENDED)** **[[A]]** The method according to claim 8 in which the selectable DNA of interest **[[is a]]** confers herbicide resistance **[[gene]]** to the transformed plant.

10. **(CURRENTLY AMENDED)** **[[A]]** The method according to claim 9 in which the herbicide resistance **[[gene]]** DNA of interest is the *bar* gene or a glyphosate resistance gene.

11. **(CURRENTLY AMENDED)** **[[A]]** The method according to claim 8 in which the selectable DNA of interest is an antibiotic resistance **[[gene]]** DNA of interest.

12. **(CURRENTLY AMENDED)** **[[A]]** The method according to claim 11 in which the antibiotic resistance **[[gene]]** DNA of interest is the *nptII* **[[gene]]** DNA of interest.

13. **(CANCELED)**

14. **(PREVIOUSLY PRESENTED)** A transformed plant when produced by the method of claim 1.

15. **(CANCELED)**

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